THE ASTROPHYSICAL JOURNAL LETTERS

CONTENTS OF VOLUME 562, PART 2

2001 NOVEMBER 20, NUMBER 1

	Page
DID VERY MASSIVE STARS PREENRICH AND REIONIZE THE UNIVERSE? (E) S. Peng Oh, Kenneth M. Nollett, Piero Madau, and G. J. Wasserburg	LI
THE OPTICALLY POWERFUL QUASAR E1821+643 IS ASSOCIATED WITH A 300 KILOPARSEC–SCALE FR I RADIO STRUCTURE (E) Katherine M. Blundell and Steve Rawlings	L5
THE TRANSFORMATION OF GALAXIES WITHIN THE LARGE-SCALE STRUCTURE AROUND A $z=0.41$ CLUSTER © Tadayuki Kodama, Ian Smail, F. Nakata, S. Okamura, and R. G. Bower	L9
ON THE ORIGIN OF Ly α BLOBS AT HIGH REDSHIFT: SUBMILLIMETRIC EVIDENCE FOR A HYPERWIND GALAXY AT $z=3.1$ Yoshiaki Taniguchi, Yasuhiro Shioya, and Yuko Kakazu	L15
MISSING LINK FOUND? THE "RUNAWAY" PATH TO SUPERMASSIVE BLACK HOLES Toshikazu Ebisuzaki, Junichiro Makino, Takeshi Go Tsuru, Yoko Funato, Simon Portegies Zwart, Piet Hut, Steve McMillan, Satoki Matsushita, Hironori Matsumoto, and Ryohei Kawabe	L19
THE ORIGIN OF BLUE CORES IN HUBBLE DEEP FIELD E/S0 GALAXIES Felipe Menanteau, Raul Jimenez, and Francesca Matteucci	L23
ON THE NATURE OF INTRINSIC ABSORPTION IN REDDENED SEYFERT 1 GALAXIES D. M. Crenshaw and S. B. Kraemer	L29
A MASSIVE DISK GALAXY AT $z = 1.34$ © Pieter G. van Dokkum and S. A. Stanford	L35
RR LYRAE VARIABLE STARS IN THE DWARF SPHEROIDAL GALAXY LEO I Enrico V. Held, Gisella Clementini, Luca Rizzi, Yazan Momany, Ivo Saviane, and Luca Di Fabrizio	L39
DISCOVERY OF MOLECULAR GAS IN THE OUTFLOW AND TIDAL ARMS AROUND M82 Christopher L. Taylor, Fabian Walter, and Min S. Yun	L43
A NEW, KINEMATICALLY ANOMALOUS H 1 COMPONENT IN THE SPIRAL GALAXY NGC 2403 Filippo Fraternali, Tom Oosterloo, Renzo Sancisi, and Gustaaf van Moorsel	L47
A CALORIMETRIC TEST FOR KERR BLACK HOLES IN GAMMA-RAY BURSTS Maurice H. P. M. van Putten	L51
BEAMING IN GAMMA-RAY BURSTS: EVIDENCE FOR A STANDARD ENERGY RESERVOIR D. A. Frail, S. R. Kulkarni, R. Sari, S. G. Djorgovski, J. S. Bloom, T. J. Galama, D. E. Reichart, E. Berger, F. A. Harrison, P. A. Price, S. A. Yost, A. Diercks, R. W. Goodrich, and F. Chaffee	L55
ON THE RADIO QUIESCENCE OF ANOMALOUS X-RAY PULSARS AND SOFT GAMMA-RAY REPEATERS Bing Zhang	L59
THE GENERATION OF NONTHERMAL PARTICLES IN THE RELATIVISTIC MAGNETIC RECONNECTION OF PAIR PLASMAS S. Zenitani and M. Hoshino	L63
TIMING AND SPECTRAL PROPERTIES OF X-RAY EMISSION FROM THE CONVERGING FLOWS ONTO A BLACK HOLE: MONTE CARLO SIMULATIONS Philippe Laurent and Lev Titarchuk	L67
A BURST FROM THE DIRECTION OF UZ FORNACIS WITH XMM-NEWTON Martin Still and Koji Mukai	L71
X-RAY DOPPLER IMAGING OF 44i BOOTIS WITH CHANDRA N. S. Brickhouse, A. K. Dupree, and P. R. Young	L75
IMAGES OF AN EQUATORIAL OUTFLOW IN SS 433 Katherine M. Blundell, Amy J. Mioduszewski, Tom W. B. Muxlow, Philipp Podsiadlowski, and Michael P. Rupen	L79
3 Ms IN THE LIFE OF β CETI: SUSTAINED FLARE ACTIVITY ON A CLUMP GIANT DETECTED BY THE EXTREME ULTRAVIOLET EXPLORER Thomas R. Ayres, Rachel A. Osten, and Alexander Brown	1.83
THE β PICTORIS MOVING GROUP B. Zuckerman, Inseok Song, M. S. Bessell, and R. A. Webb	L87

CONTENTS

L91 STAR FORMATION SIGNATURES IN THE CONDENSATION DOWNSTREAM OF HH 80N J. M. Girart, R. Estalella, S. Viti, D. A. Williams, and P. T. P. Ho A PHYSICAL UPPER LIMIT ON THE H I COLUMN DENSITY OF GAS CLOUDS L95 Joop Schaye STOCHASTIC THEORY OF MOLECULE FORMATION ON DUST L99 PERIODIC ACCELERATION OF ELECTRONS IN THE 1998 NOVEMBER 10 SOLAR FLARE L103 A. Asai, M. Shimojo, H. Isobe, T. Morimoto, T. Yokoyama, K. Shibasaki, and H. Nakajima CORONAL INFLOWS AND SECTOR MAGNETISM L107 N. R. Sheeley, Jr. and Y.-M. Wang INSTRUCTIONS TO AUTHORS OF LETTERS, AND ADDITIONAL USEFUL INFORMATION Inside Back Cover INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION Back Cover

2001 DECEMBER 1, NUMBER 2

	Page
THE MUNICH NEAR-INFRARED CLUSTER SURVEY: NUMBER DENSITY EVOLUTION OF MASSIVE FIELD GALAXIES TO $z\sim 1.2$ AS DERIVED FROM THE K-BAND–SELECTED SURVEY	L111
N. Drory, R. Bender, J. Snigula, G. Feulner, U. Hopp, C. Maraston, G. J. Hill, and C. Mendes de Oliveira	
UNBIASED ESTIMATE OF DARK ENERGY DENSITY FROM TYPE Ia SUPERNOVA DATA Yun Wang and Geoffrey Lovelace	L115
QUASI-PERIODIC OSCILLATION IN SEYFERT GALAXIES: SIGNIFICANCE LEVELS. THE CASE OF MARKARIAN 766 Sara Benlloch, Jörn Wilms, Rick Edelson, Tahir Yaqoob, and Rüdiger Staubert	L121
ANOMALOUS STAR FORMATION ACTIVITY OF LESS-LUMINOUS GALAXIES IN A CLUSTER ENVIRONMENT Yuka Y. Tajiri and Hideyuki Kamaya	L125
THERMAL CONDUCTION IN CLUSTERS OF GALAXIES Ramesh Narayan and Mikhail V. Medvedev	L129
THE ORIGIN OF RADIO EMISSION IN LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI: JETS, ACCRETION FLOWS, OR BOTH? James S. Ulvestad and Luis C. Ho	L133
ACTIVITY FROM TIDAL DISRUPTIONS IN GALACTIC NUCLEI Kristen Menou and Eliot Quataert	L137
SOLAR-LIKE OSCILLATIONS OF SEMIREGULAR VARIABLES J. Christensen-Dalsgaard, H. Kjeldsen, and J. A. Mattei	L141
EMISSION FROM THE SECONDARY STAR IN THE OLD CATACLYSMIC VARIABLE WZ SAGITTAE D. Steeghs, T. Marsh, C. Knigge, P. F. L. Maxted, E. Kuulkers, and W. Skidmore	L145
DISCOVERY OF GHOST CAVITIES IN THE X-RAY ATMOSPHERE OF ABELL 2597 B. R. McNamara, M. W. Wise, P. E. J. Nulsen, L. P. David, C. L. Carilli, C. L. Sarazin, C. P. O'Dea, J. Houck, M. Donahue, S. Baum, M. Voit, R. W. O'Connell, and A. Koekemoer	L149
NONHYDROSTATIC GAS IN THE CORE OF THE RELAXED GALAXY CLUSTER A1795 M. Markevitch, A. Vikhlinin, and P. Mazzotta	L153
ANOMALOUS SCATTERING OF HIGHLY DISPERSED PULSARS O. Löhmer, M. Kramer, D. Mitra, D. R. Lorimer, and A. G. Lyne	L157
X-RAY DETECTION OF PULSAR PSR B1757—24 AND ITS NEBULAR TAIL V. M. Kaspi, E. V. Gotthelf, B. M. Gaensler, and M. Lyutikov	L163
IS THE SUPERNOVA REMNANT RX J1713.7—3946 A HADRONIC COSMIC-RAY ACCELERATOR? Yousaf M. Butt, Diego F. Torres, Jorge A. Combi, Thomas Dame, and Gustavo E. Romero	L167
A YOUNG PROTOPLANETARY DISK IN THE BOK GLOBULE CB 26? R. Launhardt and A. I. Sargent	L173

CONTENTS

ON THE C/O ENRICHMENT OF NOVA EJECTA R. Rosner, A. Alexakis, YN. Young, J. W. Truran, and W. Hillebrandt	L177
MOLECULAR HYDROGEN IN HIGH-VELOCITY CLOUDS Philipp Richter, Kenneth R. Sembach, Bart P. Wakker, and Blair D. Savage	L181
DETECTION OF $^{13}\text{C}^{17}\text{O}$ AND OBSERVATIONS OF RARE CO ISOTOPOMERS TOWARD THE ρ OPHIUCHI MOLECULAR CLOUD F. Bensch, I. Pak, J. G. A. Wouterloot, G. Klapper, and G. Winnewisser	L185
INSTRUCTIONS TO AUTHORS OF LETTERS, AND ADDITIONAL USEFUL INFORMATION	Inside Back Cover
INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION	Back Cover